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TITLE : PRODUCTION OF ZEOLITE COMPOSITION

ABSTRACT : PURPOSE: To easily produce the stabilized-quality zeolite composition having a specified content of B by bringing an alkaline-earth metal type zeolite of specified composition into contact with B_2O_3 in the presence of water and drying the product without separating water.

CONSTITUTION: An alkaline-earth metal type zeolite shown by the general formula of $(kM^1O.pM^2O.qM^3O).lAl_2O_3.mSiO_2.nH_2O$ (M^1 and M^2 are different alkaline-earth metal ion, M^3 is an alkali metal or ammonium ion, $k+p+q=1$, $p/k=0.05$ to 1 , $q=0$ to 0.15 , $l=0.9$ to 1.1 , $m=1.5$ to 2.5 , $m/l \leq 3$ and $n \geq 0$) or the calcination product is used as the raw material. The raw material and boron oxide such as B_2O_3 or boric acid, etc., capable of forming boron oxide by calcination is mixed with water. The water is preferably controlled to about pH8-12. The mixture is dried as such without separating water. A stabilized-quality zeolite composition with its B content strictly controlled is obtained in this way. The composition is sintered at relatively low temp. to obtain a high-density sintered alkaline-earth metal aluminosilicate.

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